	Application No.	Applicant(s)	
	10/666,723	ZENG ET AL.	
Notice of Allowability	Examiner	Art Unit	_
	HIRDEPAL SINGH	2611	
The MAILING DATE of this communication apperature All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT R of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in the or other appropriate communic IGHTS. This application is sub-	is application. If not included cation will be mailed in due course. <b>THIS</b>	e
1. This communication is responsive to <u>12/28/2009</u> .			
2. The allowed claim(s) is/are <u>1,4,5,7,8,11-14 and 20</u> .			
<ol> <li>Acknowledgment is made of a claim for foreign priority una.</li> <li>All b) ☐ Some* c) ☐ None of the:</li> <li>Certified copies of the priority documents have.</li> <li>Certified copies of the priority documents have.</li> <li>Copies of the certified copies of the priority documents have.</li> <li>International Bureau (PCT Rule 17.2(a)).</li> <li>* Certified copies not received:</li> </ol>	e been received. e been received in Application I	No	
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONN THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		reply complying with the requirements	
4. A SUBSTITUTE OATH OR DECLARATION must be subminformal PATENT APPLICATION (PTO-152) which give			
5. CORRECTED DRAWINGS (as "replacement sheets") mus	st be submitted.		
(a) ☐ including changes required by the Notice of Draftspers		PTO-948) attached	
1) 🔲 hereto or 2) 🔲 to Paper No./Mail Date			
<ul><li>(b) ☐ including changes required by the attached Examiner'</li><li>Paper No./Mail Date</li></ul>	s Amendment / Comment or in	the Office action of	
Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in t			
6. DEPOSIT OF and/or INFORMATION about the depo attached Examiner's comment regarding REQUIREMENT			
Attachment(s)  1. ☑ Notice of References Cited (PTO-892)  2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948)  3. ☐ Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date  4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material	6. ⊠ Interview Sum Paper No./Ma 7. ⊠ Examiner's An	il Date <u>2/25/10</u> .	



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# **DETAILED ACTION**

1. This action is in response to the amendment filed on December 28, 2009. Claims 1-2, 4-8, 10-14 and 20 are pending and have been considered below.

# **EXAMINER'S AMENDMENT**

2. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Diana Y. Fu on February 25, 2010.

The Claims in the application has been amended as follows.

### In the Claims:

- (1) In claim 1, line 4; insert –plurality of- between "the" and
  - (2) In claim 1, line 4; replace "the" at the end of the line with -a-.
    - (3) In claim 1, line 9; insert **–plurality of-** between **"each of the"** and **"self"**.
    - (4) Please cancel claim 2.
    - (5) In claim 4, line 4; insert **–plurality of-** between **"the"** and

"subsequences".

"subsequences".

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- (6) In claim 4, line 4; replace "the" at the end of the line with -a-.
- (7) In claim 4, line 9; insert **–plurality of-** between **"each of the"** and **"self"**.
- (8) In claim 5, line 4; insert –plurality of- between "the" and
- "subsequences".
  - (9) In claim 5, line 4; replace "the" at the end of the line with -a-.
  - (10) In claim 5, line 9; insert -plurality of- between "each of the" and "self".
  - (11) Please cancel claim 6.
  - (12) Please cancel claim 10.
- (13) In claim 20, line 4; insert –plurality of- between "the" and
- "subsequences".
- (14) In claim 20, line 5; replace "the" between "of" and "subsequence" with —a-.
  - (15) In claim 20, line 11; insert **–plurality of-** at the beginning of the line.

# Allowable Subject Matter

- 3. Claims 1, 4-5, 7-8, 11-14 and 20 are allowed.
- 4. The following is an examiner's statement of reasons for allowance: The prior art of record discloses a packet detection system and method in communication systems where the incoming signal samples are cross correlated with a known sequence and the resulted signal is then adjusted in sign and self correlated with a sum of correlation is used for detection, but prior art fails to disclose that for detection the system is

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processing the sum of the self correlations includes comparing for a period of time the magnitude of the sum of the self correlations to a first threshold and summing the sums of the self correlation whose magnitudes exceed the first threshold and comparing the magnitude of summed sums to a second threshold and also the sum of the self correlations includes comparing for a period of time the magnitude of the sum of the self correlations to a first threshold and summing magnitudes of the sum of the self correlation that exceed the first threshold and comparing the summed magnitudes to a second threshold.

5. Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

### Conclusion

- 6. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.
- a. Dabak et al. (US 7,039,036) discloses a reduced complexity synchronization codes with good correlation properties.
- b. Tehrani et al. (US 2005/0078649) discloses a high data rate wideband packetized communication system.
- c. Rohaly (US 7,324,665) discloses a system and method for multi resolution adaptive correlation processing.

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to HIRDEPAL SINGH whose telephone number is (571) 270-1688. The examiner can normally be reached on Mon-Fri (Alternate Friday Off) 8:30AM-6:00PM EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Shuwang Liu can be reached on 571-272-3036. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/H. S./ Examiner, Art Unit 2611 /Shuwang Liu/ Supervisory Patent Examiner, Art Unit 2611